

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re application of:** Bowie G. Keefer et al.

**Application No.:** 09/591,277

**Filed:** June 9, 2000

**Confirmation No.:** 3353

**For:** CHEMICAL REACTOR WITH PRESSURE  
SWING ADSORPTION

**Examiner:** Alexa A. Doroshenk

**Art Unit:** 1764

**Attorney Reference No.:** 6454-58862-01

**CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney  
for Applicant(s) Wayne L. Rupert

Date Mailed July 19, 2004

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

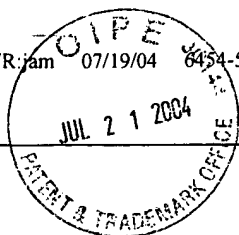
The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Attorney Docket Number	6454-58862-01
Application Number	09/591,277
Filing Date	June 9, 2000
First Named Inventor	Keefer
Art Unit	1764
Examiner Name	Alexa A. Doroshenk

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		3,231,492	25 Jan 1966	Stine et al.
		4,452,612	05 June 1984	Mattia
		4,946,479	07 Aug 1990	Izumo

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		Europe	EP 0 681 860 A2	15 Nov 1995	The Boc Group, Inc.
		Europe	EP 0 681 860 A3	15 Nov 1995	The Boc Group, Inc.
		WIPO/PCT	WO 99/28013	10 June 1999	Questor Industries Inc.
		WIPO/PCT	WO 00/76629	21 Dec 2000	QuestAir Industries Inc.

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
		Chatsiriwech et al., <i>Catalysis Today</i> 20:351-366, 1994
		Vaporciyan et al., <i>AIChE Journal</i> 35(5):831-844, 1989

EXAMINER SIGNATURE:	DATE CONSIDERED:
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\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.